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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,467	08/22/2003	Kenneth S. Collins	006915/P6	8489
7590 10/23/2006		EXAMINER		
Patent Counsel, M/S 2061			PADGETT, MARIANNE L	
Legal Affairs Dept. Applied Materials, Inc.			, ART UNIT	PAPER NUMBER
P.O. Box 450-A			1762 ·	
Santa Clara, CA 95035			DATE MAILED: 10/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/646,467	COLLINS ET AL.
		Examiner	Art Unit
_		Marianne L. Padgett	1762
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a) <u></u>	Responsive to communication(s) filed on 10/4/ This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
5)□ 6)□ 7)□ 8)⊠	Claim(s) <u>1-85</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-85</u> are subject to restriction and/or expressions.	vn from consideration.	
Applicati	on Papers		•
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau see the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No / ed in this National Stage
Attachman	Mo.\		
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	
3) Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	

Application/Control Number: 10/646,467 Page 2

Art Unit: 1762

1. This application contains claims directed to the following four sets of patentably distinct

species:

- A.) RF biasing techniques:
 - i) pulse modulation bias techniques;
 - ii) single burst bias;
- and B.) Workpiece or substrate or type of layer treated:
 - i) dielectric;
 - ii) semiconductor;
- and C.) Pre-treatments:
 - i) passivation of workpiece;
 - ii) "pre-cleaning" of workpiece;
 - iii) plasma cleaning chamber;
- and D.) Post-treatments:
 - i) thermal annealing;
 - ii) stripping photoresist or mask;
 - iii) wet-cleaning.

The species are independent or distinct because species group A represents two different mutually exclusive means of applying bias; species group B represents two different generic types of substrates/layers being treated with different properties; species group C represents three totally different types of pretreatment processes that may be done before the ion implantation process; & species group D represents three different types of posttreatment processes to be performed after the ion implanting process.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from each of the four sets of species groups, i.e. one from each of A, B, C & D, for prosecution on the merits to which the

claims shall be restricted if no generic claim is finally held to be allowable. Currently, 1-2, 5, 44, 51-52, 55-59, 73-74 & 83 are generic.

Applicant is advised that a reply to this requirement <u>must include an identification of the species</u> that is elected consonant with this requirement, and a <u>listing of all claims readable</u> thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

3. A telephone call was made to Robert Wallace on 10/(16-17)/2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Application/Control Number: 10/646,467

Art Unit: 1762

Mr. Wallace requested that the species requirement be mailed.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named

inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37

CFR 1.17(i).

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marianne L. Padgett whose telephone number is (571) 272-1425. The

examiner can normally be reached on M-F from about 8:30 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Timothy Meeks, can be reached at (571) 272-1423. The fax phone number for the organization where

this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MLP/dictation software

10/(16 & 17)/2006

Page 4